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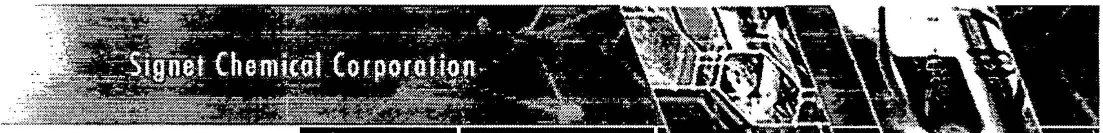
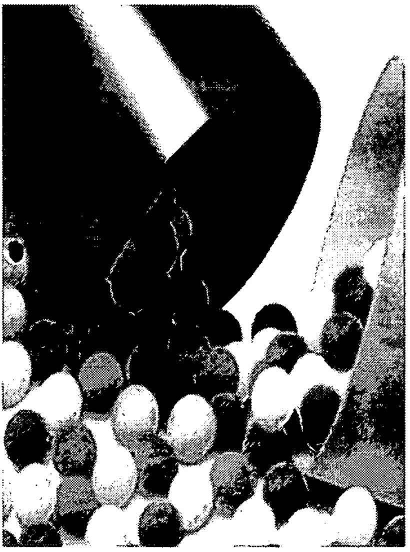


CELPHERE®

Microcrystalline Cellulose Spheres

Celphere ® is a pure spheronized microcrystalline Cellulose (MCC), and is a product of cellulose particle research, development, and process technology at Asahi Kasei.



It provides the following and other significant advantages, as spherical seed core for drug layering and film coating, especially for controlled release formulations.

The Celphere® series includes grades CP-102, CP-203, CP-305 and CP-507, each of a different spherical particle size range, within the overall particle size range of 106 ~ 710 mm.

ADVANTAGES AND APPLICATIONS OF CELPHERE

Advantages of Celphere®

High sphericity and Uniform particle size
Celphere® is highly spherical and uniform in particle size distribution, due to the inherent plasticity of its component MCC under wet granulation. It therefore enables greater accuracy and consistency in drug layering and coating.

Optimum water absorption
Celphere® is insoluble, yet it absorbs water and binder during the processing. It therefore helps to reduce particle agglomeration.

High mechanical Strength
Celphere® is extremely low in friability, even under high shearing condition.

Spherical microgranules capability
Celphere® makes it easy to produce spherical microgranules,

which has the most suitable size and dissolution profile for each specific purpose.

Low reactivity

Celphere® is low reactive with most active ingredients.

Our literature is available on-line in PDF format. If you don't have a PDF reader, you can click here to download one for free.

Samples and MSDS can also be ordered from our Sample/Literature Request form.

GRADE	SIZES	DESCRIPTION
Celphere CP 102	M C C Spheres ; Size : (106μm - 212μm)	Superior control release performance with improved drug layering and coating efficiency. Broad range of particle sizes suitable for high drug loading. Eliminates the concerns of sugar sensitive users.
Celphere CP 203	M C C Spheres ; Size : (150μm - 300μm)	
Celphere CP 305	M C C Spheres ; Size : (300μm - 500μm)	
Celphere CP 507	M C C Spheres ; Size : (500μm - 710μm)	

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GENERIC NAME	**TRADE NAME**	**MAIN CHARACTERISTICS / FUNCTIONALITY**	**REPRESENTED MANUFACTURER**
3 Pellets, Spheres, Beads			
Microcrystalline cellulose spheres	Celphere SCP-100	Spherical inert 100% MCC particles as starting units for coating with actives; particle size: d(0.9)=140 µm, d(0.5)=100µm, d(0.1)=70µm; sphericity factor 1.2; bulk density approx. 0.77 g/ml	ASAHI KASEI
Microcrystalline cellulose spheres	Celphere CP-203	Inert pure MCC pellets or spheres as starting units for coating with actives; 230µm mean diameter; sphericity factor 1.1; bulk density approx. 0.87 g/ml	ASAHI KASEI
Microcrystalline cellulose spheres	Celphere CP-305	Inert pure MCC pellets or spheres as starting units for coating with actives; 400µm mean diameter; sphericity factor 1.1; bulk density approx. 0.97 g/ml	ASAHI KASEI
Microcrystalline cellulose spheres	Celphere CP-507	Inert pure MCC pellets or spheres as starting units for coating with actives; 600µm mean diameter; sphericity factor 1.2; bulk density approx. 0.97 g/ml	ASAHI KASEI
Sucrose/Starch spheres	Chr. Hansen Sugar Spheres NF = Nu-Pareil KY White	Uniform, mostly spherical white seeds composed of approx. 80% Sucrose (= Saccharose = Sugar) and approx. 20% Starch. Available particle ranges (mesh/µm): 14/18=1400-1000; 16-20=1180-850; 18/20=1000-850; 20/25=850-710; 25/30=710-600; 30/35=600-500; 35/40=500-425; 35-45= 500-355; 40/50=425-300; 45/60=355-250	CHR. HANSEN